

## Product datasheet for **RG229395**

### ENPP1 (NM\_006208) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENPP1 (NM_006208) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENPP1
Synonyms:	ARHR2; COLED; M6S1; NPP1; NPPS; PC-1; PCA1; PDNP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG229395 representing NM\_006208  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGCGACGGCTGCGCGGGGGCGGGAGCCGCGCGGCGAGGGCGGGCGCGCTCCCGGGAGGGCC  
 CGGCGGGGAACGGCCGCGATCGGGGCGCAGCCACGCTGCCGAGGCGCCGGGGACCCGACAGGCGGCCG  
 GTCCTTGCTGGCCCTATGGACGTGGGGAGGAGCCGCTGGAGAAGGCGCGCGCCCGCACTGCCAAG  
 GACCCCAACACTATAAAGTACTCTCGCTGGTATTGTCAGTATGTGTGTTAAACAATACTTGGTTGTA  
 TATTTGGTTGAAACCAAGCTGTGCCAAAGAAGTTAAAAGTTGCAAAGTTCGCTGTTTCGAGAGAACATT  
 TGGGAAGTGTGCTGTGATGCTGCCTGTGTTGAGCTTGGAACTGCTGTTTAGATTACCAGGAGACGTGC  
 ATAGAACCAGAACATATATGGACTTGAACAAATTCAGGTGTGGTGAAGAAAGTTGACCAGAAGCCTCT  
 GTGCCTGTTGAGTACTGCAAGGACAAGGGCGACTGCTGCATCAACTACAGTTCTGTGTGCAAGTGA  
 GAAAAGTTGGGTAGAAGAACCATGTGAGAGCATTAAAGAGCCACAGTGCCAGCAGGGTTTGAAACGCC  
 CCTACCCTCTTATTTCTTTGGATGGATTACAGGGCAGAATATTTACACACTTGGGGTGGACTTCTTCCTG  
 TTATTAGCAAACATAAAAAATGTGGAACATATACTAAAAACATGAGACCGGTATATCCAACAAAACTTT  
 CCCCAATCACTACAGCATTGTCACCGGATTGTATCCAGAATCTCATGGCATAATCGACAATAAAATGTAT  
 GATCCCAAAATGAATGCTTCCTTTTCACTTAAAAGTAAAGAGAAATTTAATCCTGAGTGGTACAAAGGAG  
 AACCAATTTGGGTCACAGCTAAGTATCAAGGCCTCAAGTCTGGCACATTTTTCTGGCCAGGATCAGATGT  
 GGAATTAACGGAATTTCCAGACATCTATAAAATGTATAATGGTTCAGTACCATTTGAAGAAAGGATT  
 TTAGCTGTTCTTCAGTGGCTACAGCTTCTAAAGATGAAAGACCACACTTTTACACTCTGATTTAGAAG  
 AACAGATTTCTCAGTCACTCATATGGACCAGTCAGCAGTGAAGTCAAAAGCCTTGCAGAGGTTGA  
 TGGTATGGTTGGTATGCTGATGGATGGTCTGAAAGAGCTGAACTGCACAGATGCCTGAACCTCATCCTT  
 ATTTAGATCATGGCATGGAACAAGGCAGTTGTAAGAAATACATATATCTGAATAAATATTTGGGGATG  
 TAAAAATATTAAGTTATCTATGGACCTGCAGCTCGATTGAGACCCTCTGATGTCCAGATAAAATACTA  
 TTCATTTAACTATGAAGGCATTGCCGAAATCTTTCTTGGCGGAAACCAACCAGCACTTCAAACCTTAC  
 CTGAAACATTTCTTACCTAAGCGTTTGCCTTTGCTAAGAGTGTAGAAATGAGCCCTTGACATTCTATT  
 TGGACCCTCAGTGGCACTTGCATTGAATCCCTCAGAAAGGAAATATTGTGAAGTGGATTTTCATGGCTC  
 TGACAATGTATTTCAAATATGCAAGCCCTCTTTGTTGGCTATGGACCTGGATTCAAGCATGGCATTGAG  
 GCTGACACCTTTGAAAACATTGAAGTCTATAACTTAATGTGTGATTTACTGAATTTGACACCGGCTCCTA  
 ATACGGAACCTATGGAAGTCTTAACCACCTTCTAAAGAATCCTGTTTATACGCCAAAGCATCCCAAGA  
 AGTGCACCCCTGGTACAGTGCCTTCCACAAGAAACCCAGAGATAACCTTGGCTGCTCATGTAACCTT  
 TCGATTTTGGCGATTGAGGATTTTCAAACACAGTTCATCTGACTGTGGCAGAAGAGAAGATTATTAAGC  
 ATGAAACTTTACCTATGGAAGACCTAGAGTTCCTCAGAAGGAAAAACCCATCTGTCTTCTTTCCAGCA  
 CCAGTTTATGAGTGGATACAGCCAAGACATCTTAATGCCCTTTGGACATCTATACCGTGGACAGAAAT  
 GACAGTTTCTCTACGGAAGACTTCTCAACTGTCTGTACCAGGACTTTAGAATTCCTCTTAGTCTGTCC  
 AATTAAGTTCATTTATAAAAAAACACCAAAGTGAGTTACGGGTTCTCTCCCCACCACAATAAATAA  
 AAATCAAGTGAATATATTCTGAAGCTTGTCTACTACAAATATAGTGCCAATGTACCAGAGTTTCAA  
 GTTATATGGCGCTACTTTCATGACACCCTACTGCGAAAGTATGCTGAAGAAAGAAATGGTGTCAATGTCG  
 TCAGTGGTCTGTGTTTACTTTGATTATGATGGACGTTGTGATTCTTAGAGAATCTGAGGCAAAAAAG  
 AAGAGTCAATCCGTAACCAAGAAATTTTATTCCAACCTCACTTCTTTATTGTGCTAACAAGCTGTAAGAT  
 ACATCTCAGACGCTTTGCACTGTGAAAACCTAGACACCTTAGCTTTTCAATTTGCTCACAGGACTGATA  
 ACAGCGAGAGCTGTGTCATGGGAAGCATGACTCCTCATGGGTTGAAGAATTGTTAATGTTACACAGAGC  
 ACGGATCACAGATGTTGAGCACATCACTGGACTCAGCTTCTATCAACAAGAAAAAGCCAGTTTCAGAC  
 ATTTTAAAGTTGAAAACACATTTGCCAACCTTTAGCCAAGAAGAC

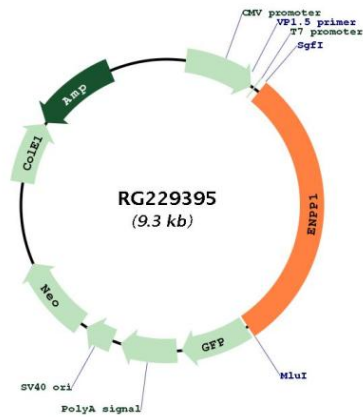
**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



<b>ORF Size:</b>	2775 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_006208.3</a>
<b>RefSeq Size:</b>	7442 bp
<b>RefSeq ORF:</b>	2778 bp
<b>Locus ID:</b>	5167
<b>UniProt ID:</b>	<a href="#">P22413</a>
<b>Cytogenetics:</b>	6q23.2
<b>Domains:</b>	SO, Endonuclease, Phosphodiester
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Nicotinate and nicotinamide metabolism, Pantothenate and CoA biosynthesis, Purine metabolism, Riboflavin metabolism, Starch and sucrose metabolism

**Gene Summary:**

This gene is a member of the ecto-nucleotide pyrophosphatase/phosphodiesterase (ENPP) family. The encoded protein is a type II transmembrane glycoprotein comprising two identical disulfide-bonded subunits. This protein has broad specificity and cleaves a variety of substrates, including phosphodiester bonds of nucleotides and nucleotide sugars and pyrophosphate bonds of nucleotides and nucleotide sugars. This protein may function to hydrolyze nucleoside 5' triphosphates to their corresponding monophosphates and may also hydrolyze diadenosine polyphosphates. Mutations in this gene have been associated with 'idiopathic' infantile arterial calcification, ossification of the posterior longitudinal ligament of the spine (OPLL), and insulin resistance. [provided by RefSeq, Jul 2008]

**Product images:**


Circular map for RG229395